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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 09/511,986 | 02/24/2000 | Vernon M. Williams | 4208US (99-0316) | 6129 |
| 7590 | 07/12/2004 | | EXAMINER | |
| Brick G Power Trask Britt & Rossa PO Box 2550 Salt Lake City, UT 84110 | | | NADAV, ORI | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2811 | |

DATE MAILED: 07/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

09/511,986

Applicant(s)

WILLIAMS, VERNON M.

Examiner

ori nadav

Art Unit

2811

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 28 June 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
(a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ they raise the issue of new matter (see Note below);
(c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See attachment.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____

Claim(s) objected to: _____

Claim(s) rejected: 47, 48, 50-56, 58-68, 75-79, 81-85 and 110-124.Claim(s) withdrawn from consideration: 80 and 86-90.

8. ☐ The drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____.
10. ☐ Other: _____


ORI NADAV
PATENT EXAMINER

Art Unit: 2811

Response to Arguments

Applicant argues that a signed copy of the Information Disclosure Statement filed on 2/07/2003 has not been received.

The examiner did not receive form PTO/SB/08A that accompanied the IDS filed on 2/07/2003. Applicant states that a second copy of the Supplemental Information Disclosure Statement of February 7, 2003, and of the Form PTO/SB/08 that accompanied that Supplemental information Disclosure Statement are enclosed, as is a copy of the USPTO date-stamped postcard evidencing receipt of the same by the Office. However, the examiner did not receive the above papers, because none of them were scanned into the file.

Applicant argues that lead wires 7 of Matsuki et al. do not contact both contact pads 4 and 11.

Conductive elements 7 make electrical contact with contacts 11 of the carrier and to corresponding bond pads 4, because during bonding contacts 11 contact bumps 10 (column 9, lines 11-15). Furthermore, Matsuki et al. teach that a wire can be directly connected to conductive elements, without the need for bumps 10 (column 9, lines 15-18). In any event, the broad recitation of the claim does not require that lead wires 7 make direct contact with contact pads 4 and 11, and Matsuki et al. clearly teach that during bonding contacts 11 contact bumps 10.

Art Unit: 2811

Applicant argues that the device of Matsuki et al. and Lee et al. do not include the claimed limitations of at least a portion of the conductive trace being configured to extend and conduct electrical signals along a plane which is parallel to a plane in which the at least one semiconductor device component is located, because Lee et al. teach a thermoplastic conductive elastomer conduct electrical signals perpendicular to the plane of the semiconductor device.


Matsuki et al. teach in figure 2 a conductive trace being configured to extend and conduct electrical signals along two planes, which are perpendicular to one another. Therefore, although Lee et al. teach a thermoplastic conductive elastomer conduct electrical signals perpendicular to the plane of the semiconductor device, when combining Lee et al. with Matsuki et al., at least one of the two planes of the conductive trace will conduct electrical signals along a plane which is parallel to a plane in which the at least one semiconductor device component is located,

Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Art Unit: 2811

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to *Examiner Nadav* whose telephone number is **(571) 272-1660**. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**

A handwritten signature in black ink, appearing to read 'Ori Nadav', is positioned above the printed name and title.

O.N.
July 5, 2004

ORI NADAV
PATENT EXAMINER
TECHNOLOGY CENTER 2800